

FIG. 1  
 (PRIOR ART)

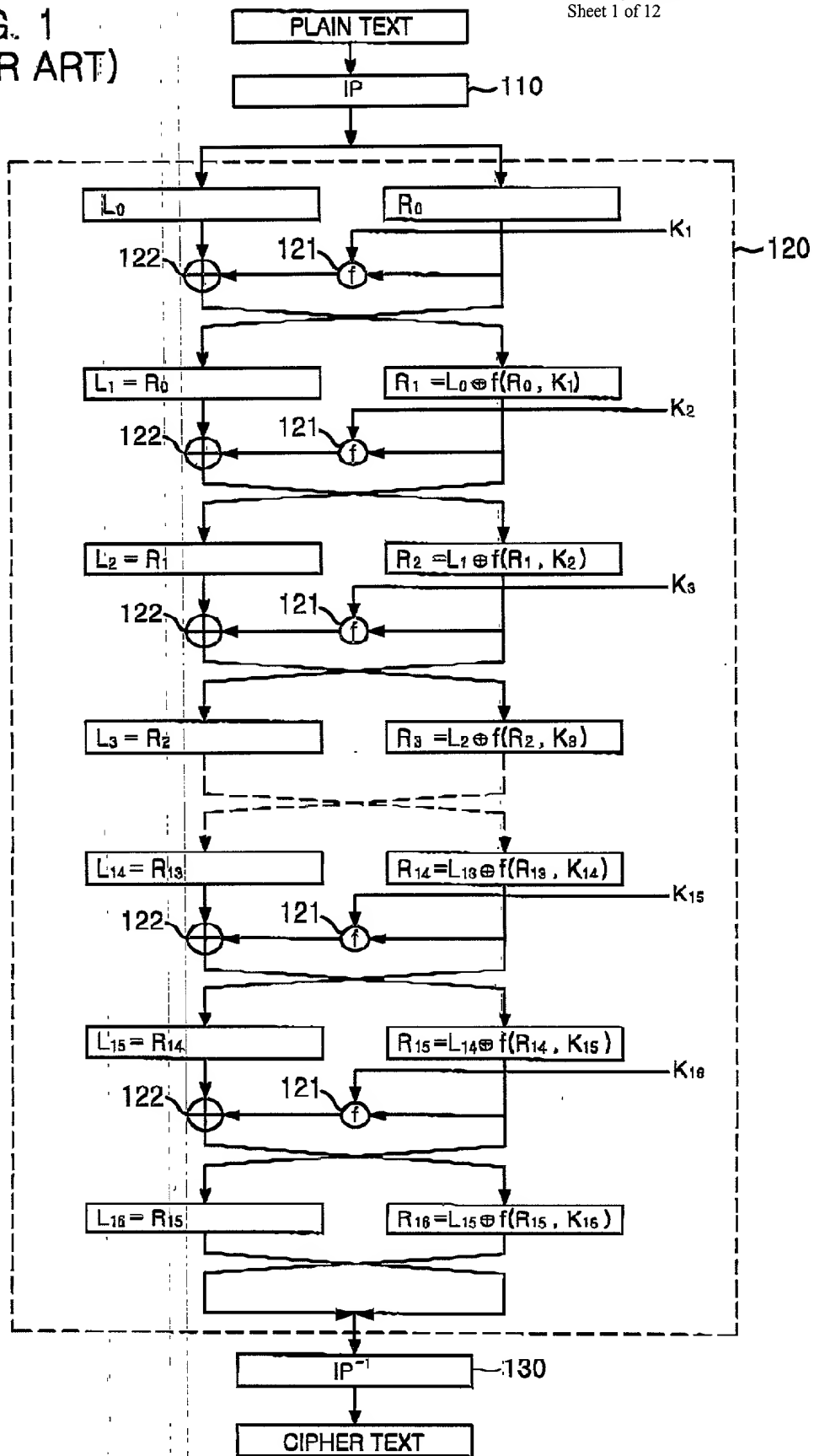


FIG. 1 (PRIOR ART)



FIG. 3  
 (PRIOR ART)

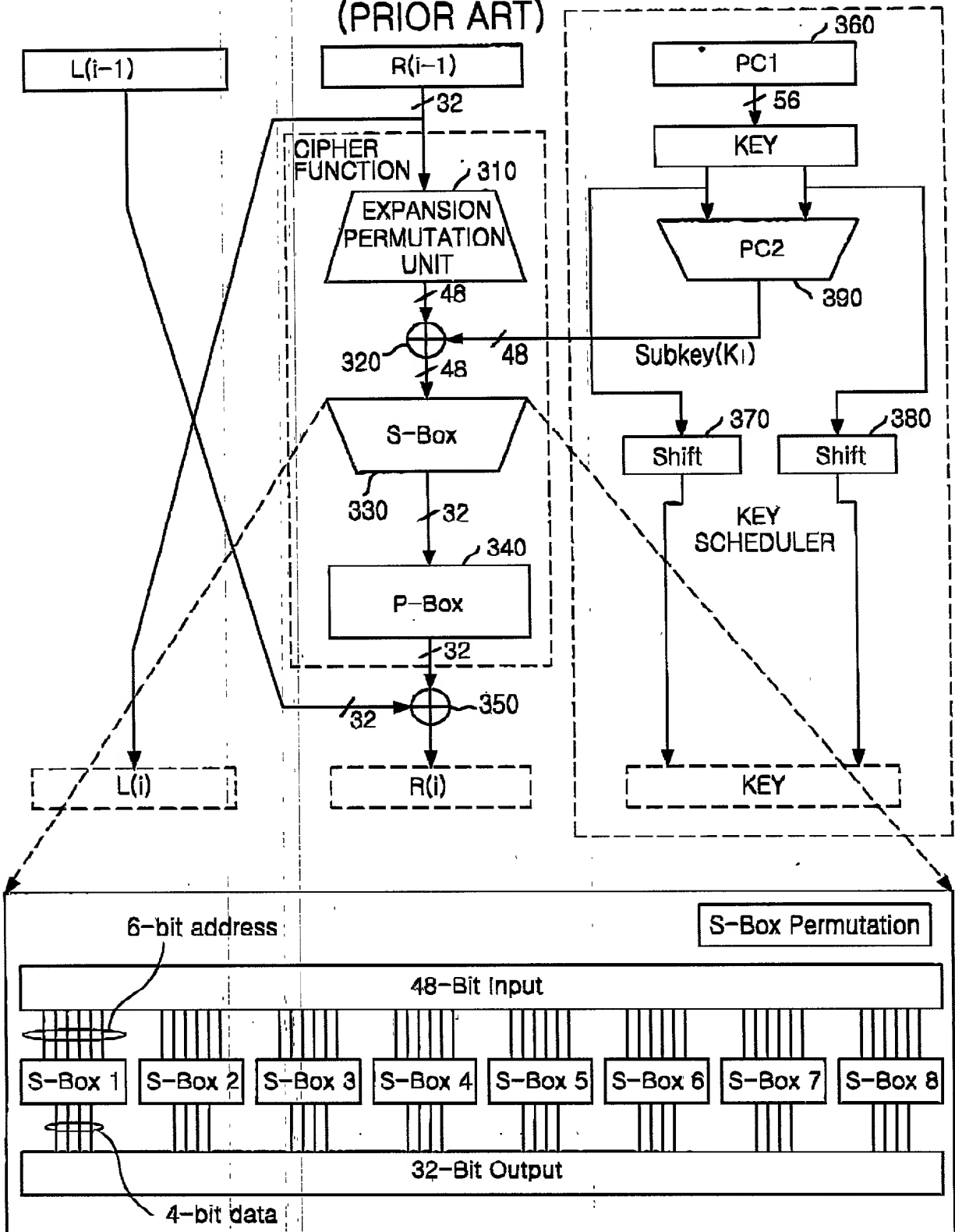
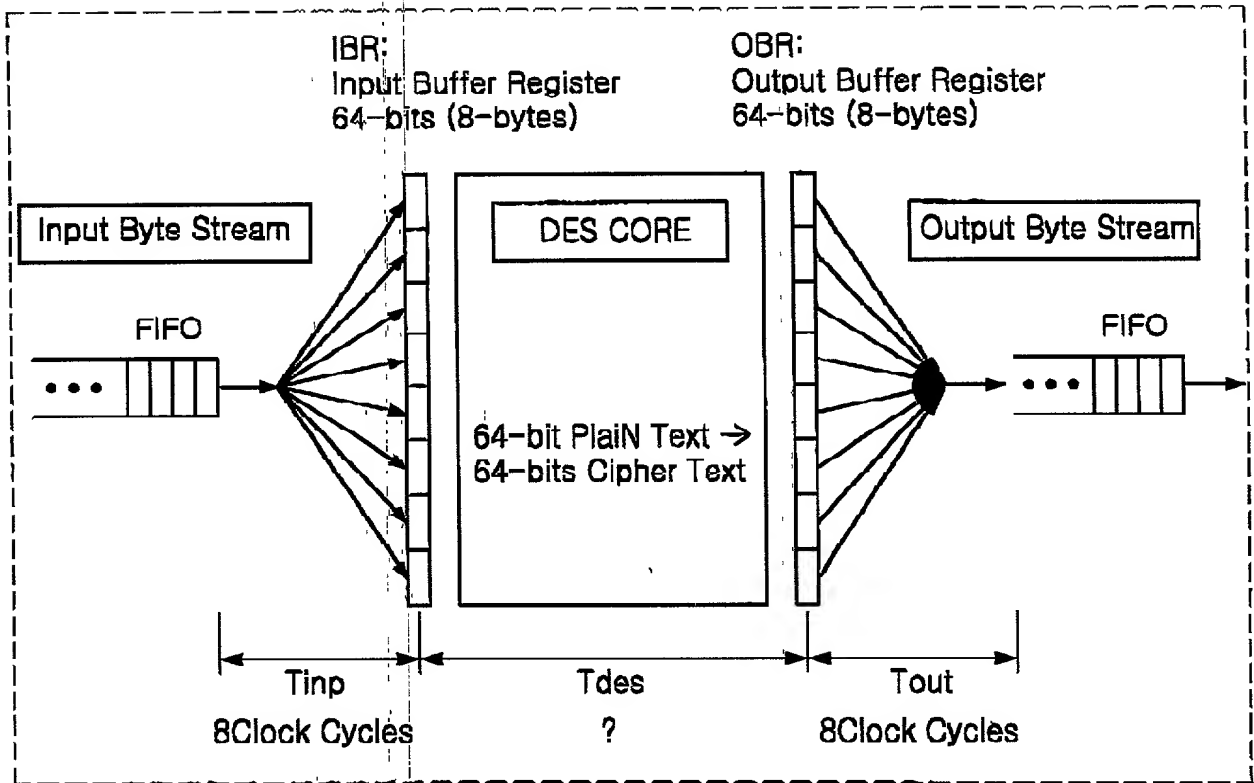


FIG. 4  
(PRIOR ART)



$P_i$  : i-th Plain Text       $I_i$  : i-th Input Processing  
 $C_i$  : i-th Cipher Text     $D_i$  : i-th DES Processing  
                                  $O_i$  : i-th Output Processing

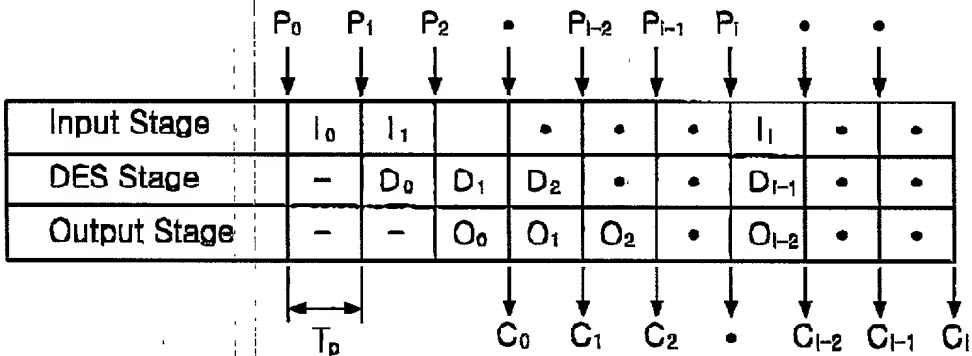


FIG. 5A  
 (PRIOR ART)

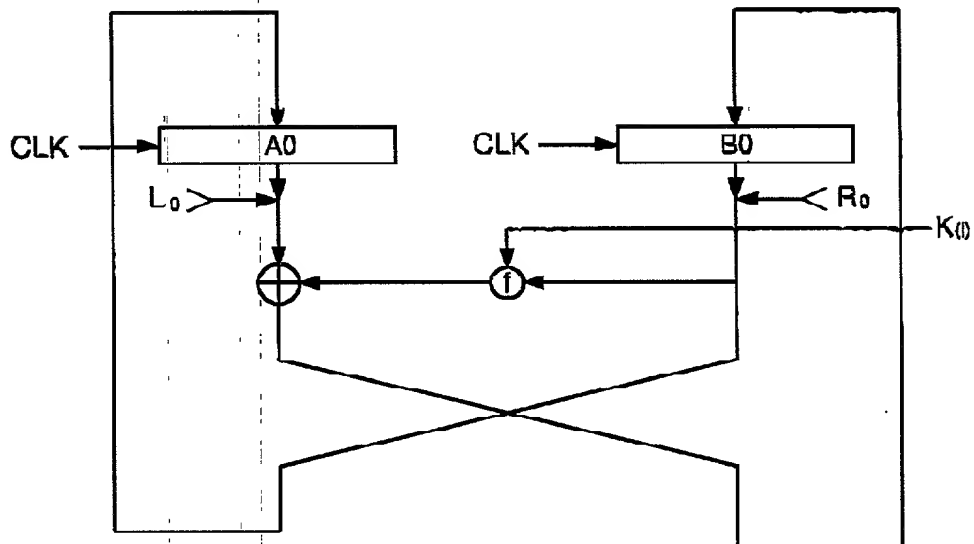


FIG. 5B

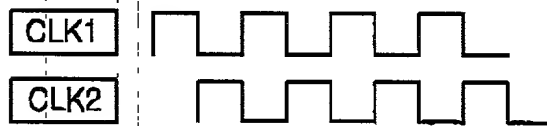
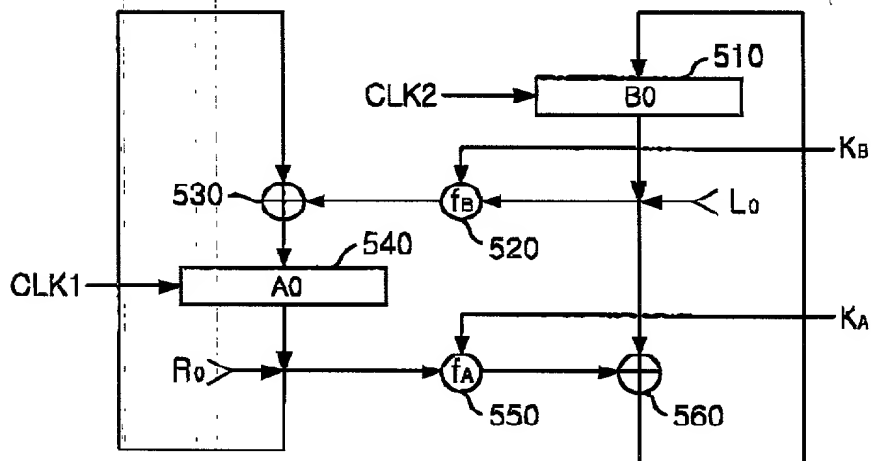


FIG. 6

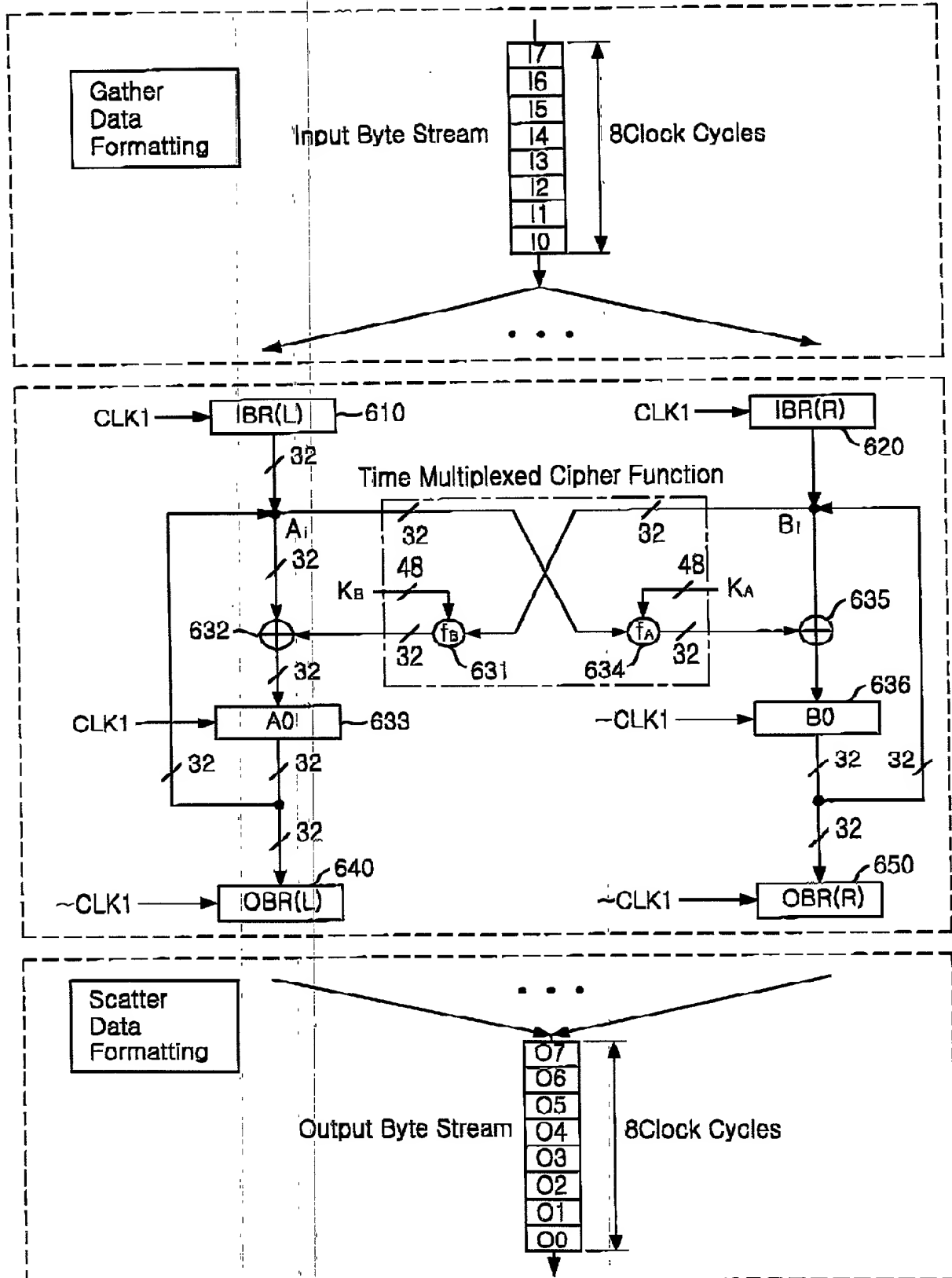


FIG. 6

FIG. 7

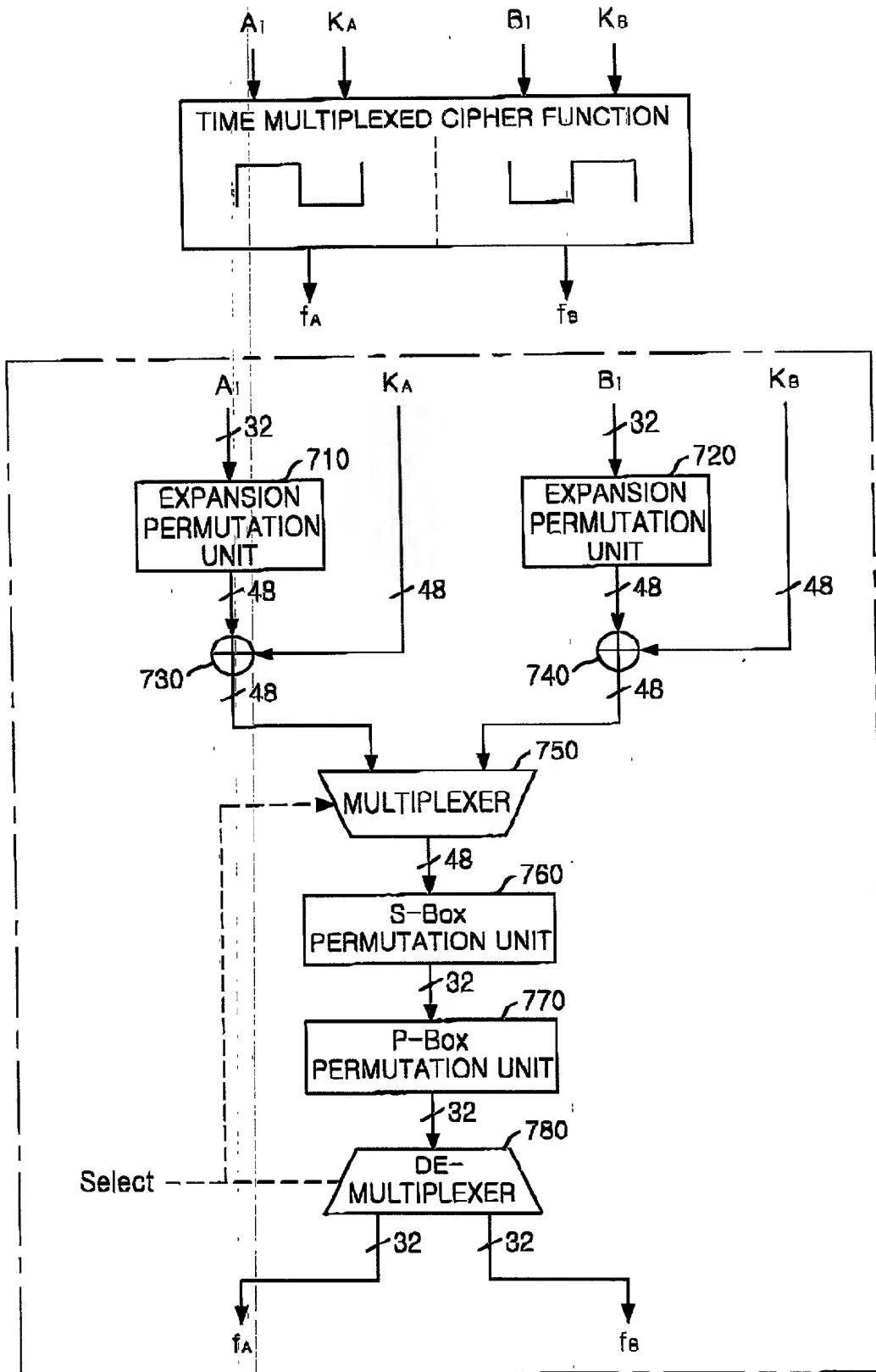


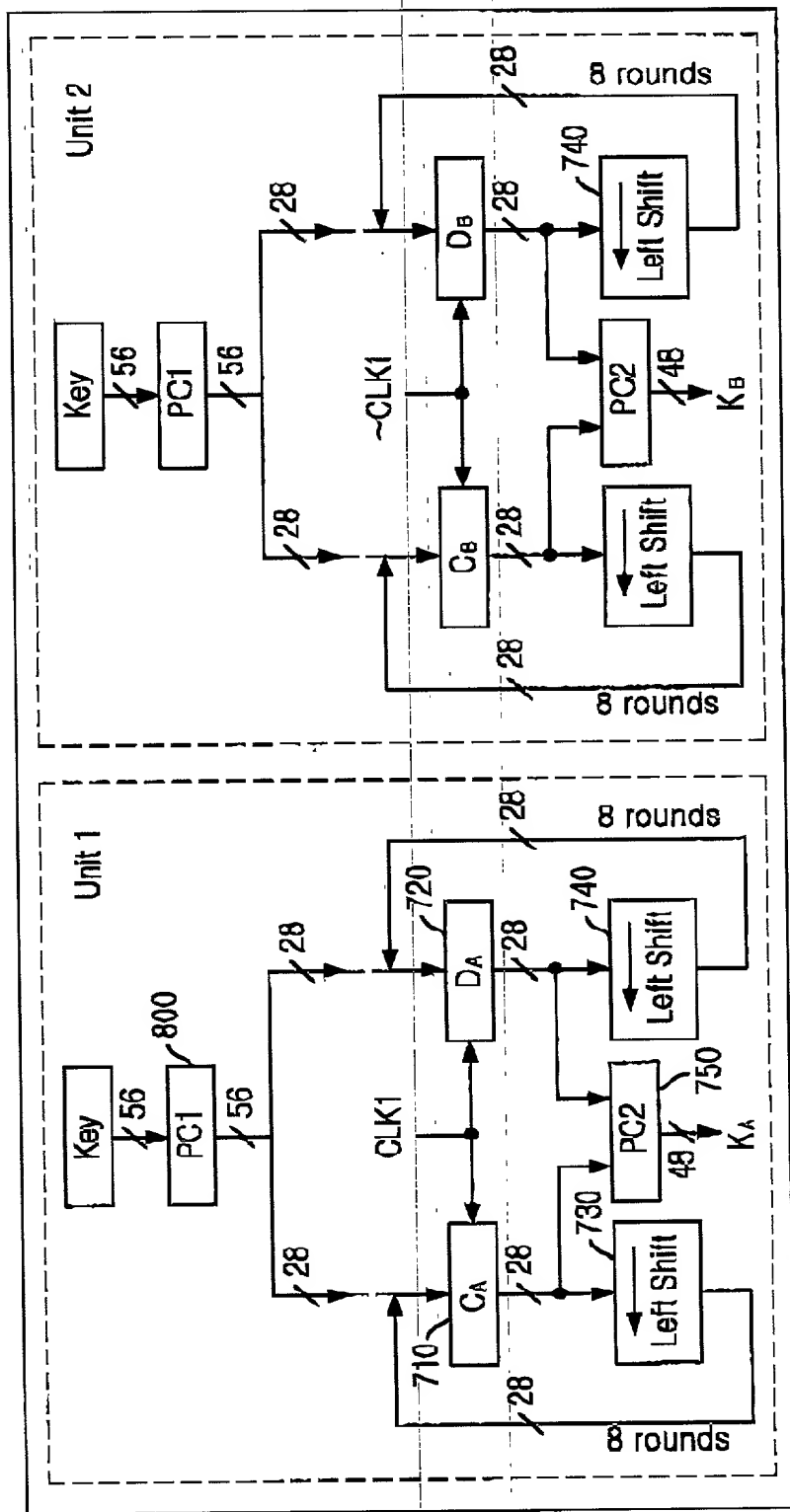
FIG. 7

FIG. 8

Round	Left Shift Amount	Total Shift Amount
1(Q <sub>0</sub> )	4	2
2(Q <sub>1</sub> )	4	6
3(Q <sub>2</sub> )	4	10
4(Q <sub>3</sub> )	3	14
5(Q <sub>4</sub> )	4	17
6(Q <sub>5</sub> )	4	21
7(Q <sub>6</sub> )	3	25
8(Q <sub>7</sub> )	2	0

Round	Left Shift Amount	Total Shift Amount
1(P <sub>0</sub> )	3	1
2(P <sub>1</sub> )	4	4
3(P <sub>2</sub> )	4	8
4(P <sub>3</sub> )	3	12
5(P <sub>4</sub> )	4	15
6(P <sub>5</sub> )	4	19
7(P <sub>6</sub> )	4	23
8(P <sub>7</sub> )	2	27

WHEN KEY IS LOADED FIRST TIME, IT SHOULD BE 1





[illegible]

FIG. 10

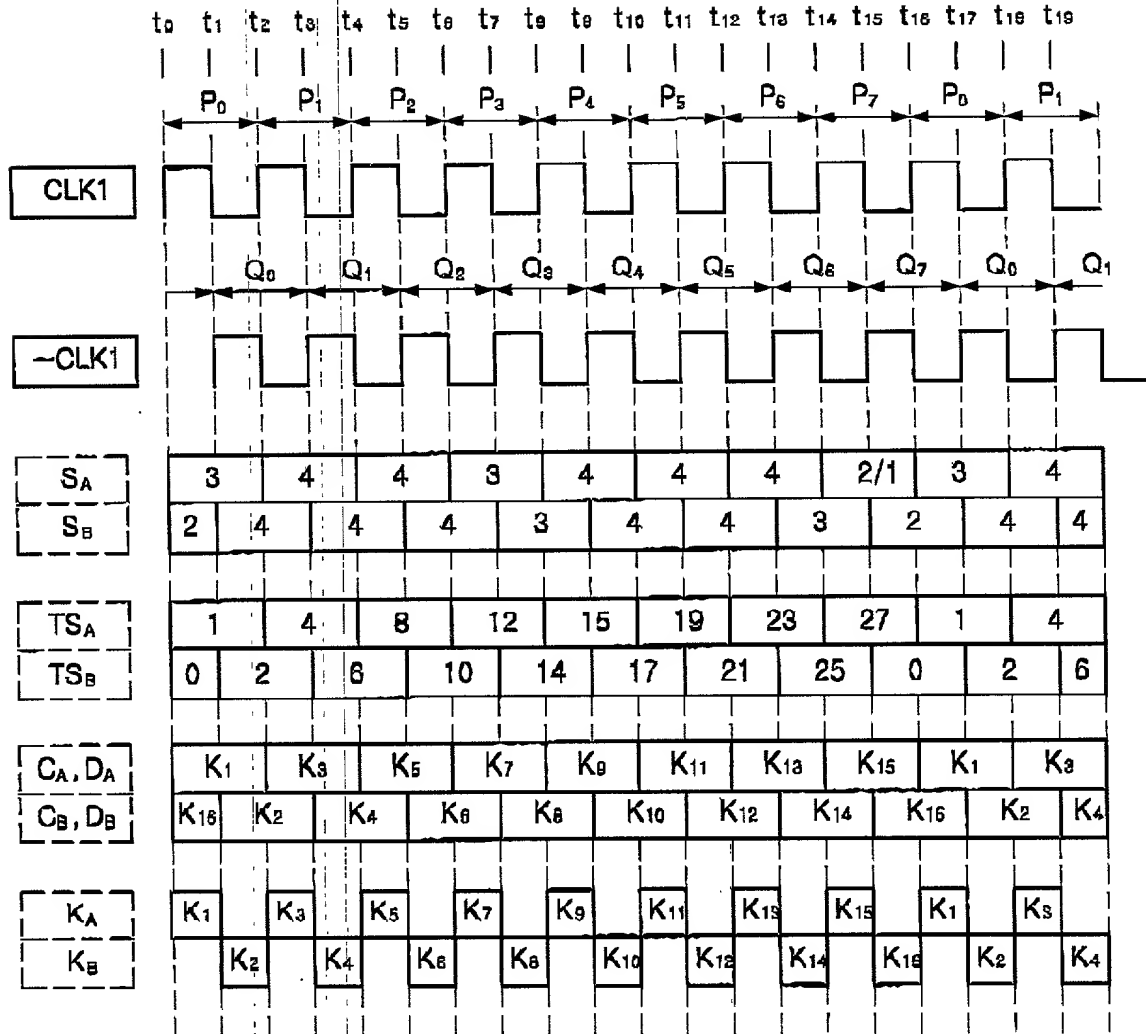


FIG. 10

FIG. 11

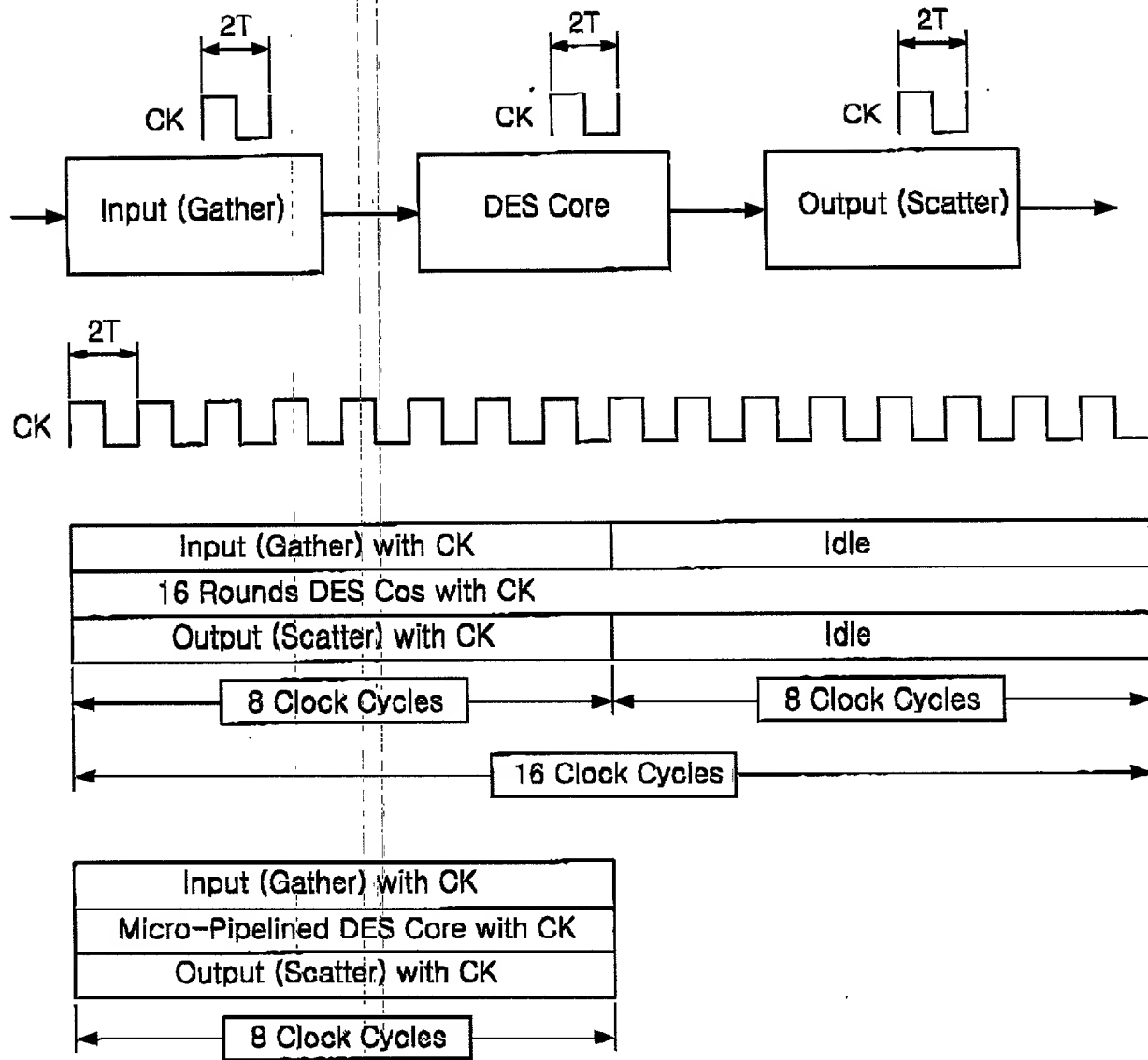


FIG. 11

FIG. 12

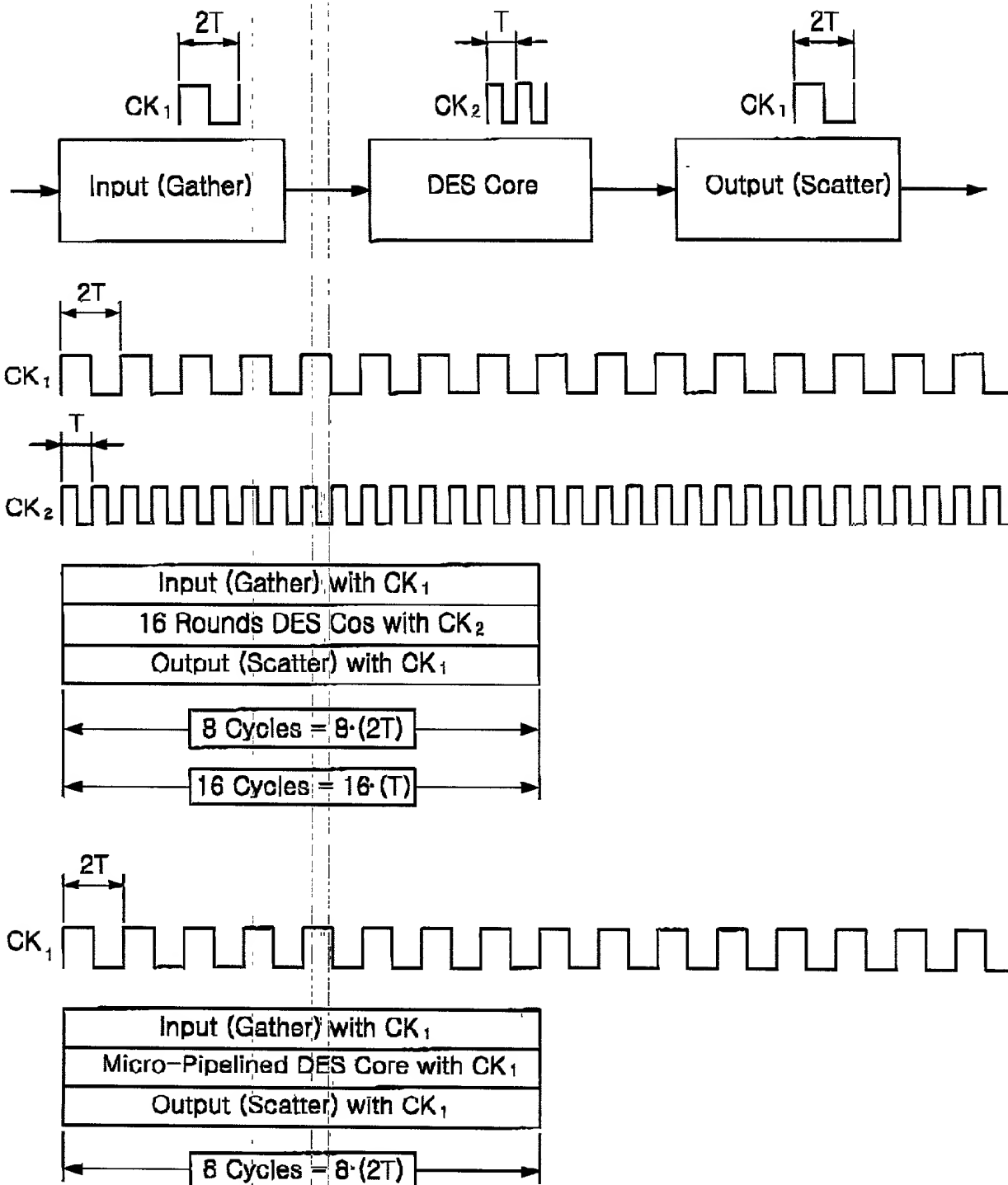


FIG. 12